A METHOD FOR REGULATING GENES WITH ELECTROMAGNETIC RESPONSE ELEMENTS

ABSTRACT

A non-invasive method for gene regulation during gene therapy comprises the steps of introducing electromagnetic field response elements into a gene promoter not having any electromagnetic field response elements to serve as switches for regulating exogenously introduced genes, and applying an electromagnetic field to the introduced electromagnetic field response elements to induce gene expression. In this way, a safer, more effective, and more precise method for gene therapy is provided of inducing production of desired genetic products.